Colby Hill

colbyahill21@gmail.com | 803-513-7551 | www.colby-hill.com | github.com/colbyhill21 | linkedin.com/in/colby-h

Experience

Capital One *May 2020 - August 2020*
Software Engineering Intern McLean, VA

- Collaborated with an Agile team remotely to architect a full-stack application which enabled product owners to effortlessly manage the Commercial Card Platform features, saving hours of time each week
- Implemented RESTful system architecture for a three-tier application to improve flexibility of user interface and scalability through simplification of server components
- Utilized Cypress to create automated end-to-end tests which lessened the need for manual user testing
- **Technologies Used:** Node.js, PostgreSQL, AWS, Angular, NestJS, HTML, SCSS, Docker, Jenkins

Krumware *August 2019 - May 2020*
Software Developer Columbia, SC

- Led the migration to Rancher, enabling Multi-Cloud Computing and improving application availability by 10%
- Automated Kubernetes resource management workflows which eliminated the need for manual processing
- Created interactive documentation using Swagger UI to facilitate client application interactions
- Engineered and delivered multiple responsive, user-friendly web applications to clients
- **Technologies Used:** Node.js, MongoDB, Docker, Javascript, Rancher, Jenkins, AWS, GitHub Actions

Boeing *May 2019 - August 2019*
Software Engineering Intern Seattle, WA

- Pioneered Boeing's shift to the cloud by deploying the first application into production on Pivotal Cloud Foundry in the Information Services department
- Leveraged CI/CD techniques to accelerate development speed, improve testability, and maximize efficiency
- Revamped the IDS website to ensure easy access to identity services, applications, and resources
- **Technologies Used:** Spring Boot, Angular, SQL, HTML, CSS, Gradle, Pivotal Cloud Foundry, GitLab CI/CD

University of South Carolina *November 2017 - May 2019*
Research Assistant Columbia, SC

- Developed an Android smartwatch application that detected smoking gestures with 99% classification accuracy
- Optimized accelerometer signal processing and gesture classification, extending smartwatch battery lifespan by 325% which increased viability for field survey testing
- Constructed training sets to refine the smoking detection algorithm, significantly reducing false positive rate
- **Technologies Used:** Java, Android Wear, Gradle, C#, Python, Matlab, SQL

Education

University of South Carolina, Columbia, SC August 2020 - Expected May 2021
Master of Science in Computer Science

University of South Carolina, Columbia, SC August 2016 - May 2020
Bachelor of Science in Computer Science
Summa Cum Laude | Phi Beta Kappa Honor Society | Leadership Distinction

Projects

Outdoorist: iPhone/iPad app built with Swift and published to the App Store for discovering outdoor destinations, tracking adventures, visualizing previous adventure data, and planning future trips (January 2020)
Angular Full CI: 1st place winner of the 2020 Github Actions Hackathon, a Github Action which provides a full Continuous Integration pipeline for Angular projects (March 2020)
UofSC Tour AR: Collaborated with a team to design and develop an iOS app using C# and Unity which enabled Augmented Reality historical tours of the University of South Carolina (August 2019)